

## DATA SHEET

### CA2005-P Catering Thermometer with Needle Probe

#### CA2005 T TYPE THERMOCOUPLE THERMOMETER WITH HOLD FUNCTION

#### FEATURES

Easy to use low cost high accuracy microprocessor based thermocouple instrument with the benefits of a hold function. This instrument has wide measurement range of -50 to +400°C and an operating range of -30 to 50 °C.

- \*\*\* **Hold function with dual display**
- \*\*\* **Preset to °C**
- \*\*\* **Resolution of 0.1° to 1000° autoranging**
- \*\*\* **Compatible with TME T type temperature probes**
- \*\*\* **Auto Switch Off capability**
- \*\*\* **Overrange / Open circuit sensor indication**
- \*\*\* **Low battery indication**
- \*\*\* **IP67 casing**

#### SPECIFICATION

##### Environmental

AMBIENT OPERATING RANGE : -30 to 50 °C  
 STORAGE TEMPERATURE RANGE : -40 to 50 °C  
 HUMIDITY : 0 to 70% R.H.

##### ELECTRICAL

MEASUREMENT RANGES : -50 to +400°C

THERMOCOUPLE TYPES : T  
 TEMPERATURE SCALES : °C  
 ACCURACY @23°C : +/- 0.1% OF READING +/- 0.2 °C  
 CHARACTERISING ACCURACY : LESS THAN 0.05 °C  
 TEMPERATURE COEFFICIENT : 0.01% OF READING /°C  
 COLD JUNCTION COMPENSATION : 0.0075 °C/°C  
 RESOLUTION : 0.1° to 1000, 1° ABOVE 1000

##### GENERAL

BATTERY : PP3 9V I.E.C. 6F22  
 BATTERY LIFE (INTERMITTENT USE) : GREATER THAN 200 HOURS (ALKALINE)  
 WEIGHT : 155 gms  
 DIMENSIONS : 130 X 70 X 33 mm

## DATA SHEET

### For CAP-(W/R/B/Y/G/BR) Range of Colour Coded Probes

#### Needle Probes – 3.3 mm Type ‘T’

##### Description

The CAP range of needle probes are supplied with colour coded handles to reduce the risk of cross-contamination. They are ideal for monitoring semi-solid products and liquids.

##### Construction

Needle Probe 3.3mm Diameter by 90mm Long: Stainless Steel 316 (Food Grade)  
1M straight polyurethane cable with moulded connector. Complete waterproof assembly.

##### Sensor Features

➤ **TOTAL ENCAPSULATION TECHNIQUE FOR MAXIMUM STRENGTH AND DURABILITY.**

This results in a solid handle as opposed to a hollow handle. This is particularly important as there is often damage to the handles caused by excess heat. With a hollow handle it is possible to puncture the outer plastic and damage the sensor irreparably.

➤ **WATERPROOF HANDLE**

Due to the total encapsulation method used, all TME probe handles are completely waterproof.

➤ **TOUGH POLYURETHANE CABLE**

- Non-Toxic
- Greater mechanical strength for durability
- 12 X 0.2mm wires used internally for greater strength.
- PTFE inner insulation for strength

➤ **HIGH ACCURACY THERMOCOUPLE MATERIAL THROUGHOUT**

Type ‘T’ Thermocouple: ½ Class I (±0.25°C ±0.15%)

➤ **POLYPROPYLENE HANDLES**

Polypropylene is an extremely tough and durable material, commonly used for milk crates, it has good low temperature performance and a relatively high melt temperature. It performs exceptionally well under chemical attack.

- **WIDE AMBIENT TEMPERATURE SPECIFICATION** : -30 TO 50 °C
- **TIME RESPONSE** (96% of value in water) : 1.6 Secs
- **MEASUREMENT RANGE** : -100 TO 280 °C

#### Colour Code Key

<b>Red</b>		<b>Raw Meat</b>
<b>Blue</b>		<b>Raw Fish</b>
<b>Yellow</b>		<b>Cooked Meat</b>
<b>Green</b>		<b>Washed Salad, Fruit</b>
<b>White</b>		<b>Bakery and Dairy</b>
<b>Brown</b>		<b>Vegetables</b>